



Service Manual

ORDER NO.
ARP1258-A

REMOTE CONTROL UNIT

RU-V101

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The RU-V101 is the remote control unit for the LD-V4200/KUC type.

- This service manual is applicable to the RU-V101.

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1. PANEL FACILITIES

PAUSE Key

When this key is pressed, temporary playback pause occurs. It can be released by PLAY, SCAN, MULTI-SPEED (standard play disc only), STILL/STEP (standard play disc only) key operation.

*The Pause mode is not released by pressing the PAUSE key during pause status.

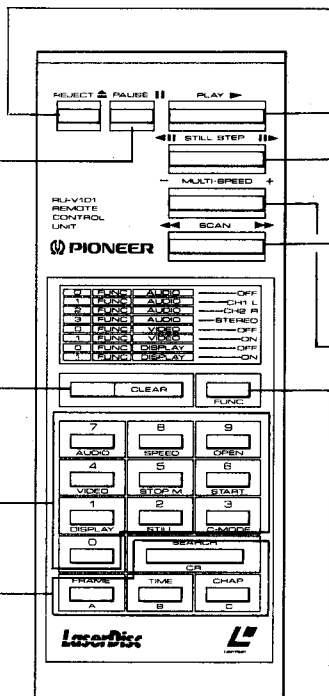
CLEAR Key

Used for numeral input correction, search mode release (see page 16), stop marker release (see page 17).

DIGIT (0–9) Keys

SEARCH Key, FRAME Key, TIME Key, CHAPTER Key

Used for search operation (see page 16).



REJECT Key, PLAY Key, STILL/STEP Key, SCAN Key

Same function as those of each key on the front panel (see page 9).

MULTI-SPEED Key

Functions only during standard play (CAV) disc playback. When the + side is pressed, forward direction playback starts, and when the – side is pressed, reverse direction playback starts.

When power is supplied, it is set to normal speed. See Function Key Operation (page 17) for speed selection.

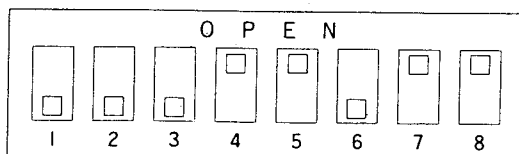
*During multi-speed playback, there is no audio output.

FUNC Key

Used when the function indicated below each key is used (see page 17).

NOTE

The baud rate for the RU-V101 is 4800bps. Make sure that the baud rate on the player side is set to 4800bps. In the case of the LD-V4200 be sure that the dip switches are set in accordance with the figure below before use. If there is a discrepancy in the dip switch settings the player will not operate.



SW4 · 5 · 7 · 8 : OFF (OPEN)
SW1 · 2 · 3 · 6 : Optional.

2. ELECTRICAL PARTS LIST

NOTES:

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω	56×10^1	561	RD4PS	5	6	1	J
47kΩ	47×10^3	473	RD4PS	4	7	3	J
0.5Ω	0R5		RN2H	0	R	5	K
1Ω	010		RS1P	0	1	0	K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	562×10^1	5621	RN4SR	5	6	2	1	F
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- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
★★ **GENERALLY MOVES FASTER THAN ★**
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by “⊙” are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

RMTC ASSEMBLY

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC1 (Mask IC)	3NC00097
★★	IC2	M51958AL
★	D1	MTZ3.6C (HZ4A2)
★	D2	1SS133

SWITCHES

Mark	Symbol & Description	Part No.
★★	SW1—SW25 Tact switch	VSC-006

CAPACITORS

Mark	Symbol & Description	Part No.
	C2	CKDYF103Z50
	C1	CEA220M10
	C4, C5	CCDSL331J50
	C3	CEAR47M50

RESISTORS

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

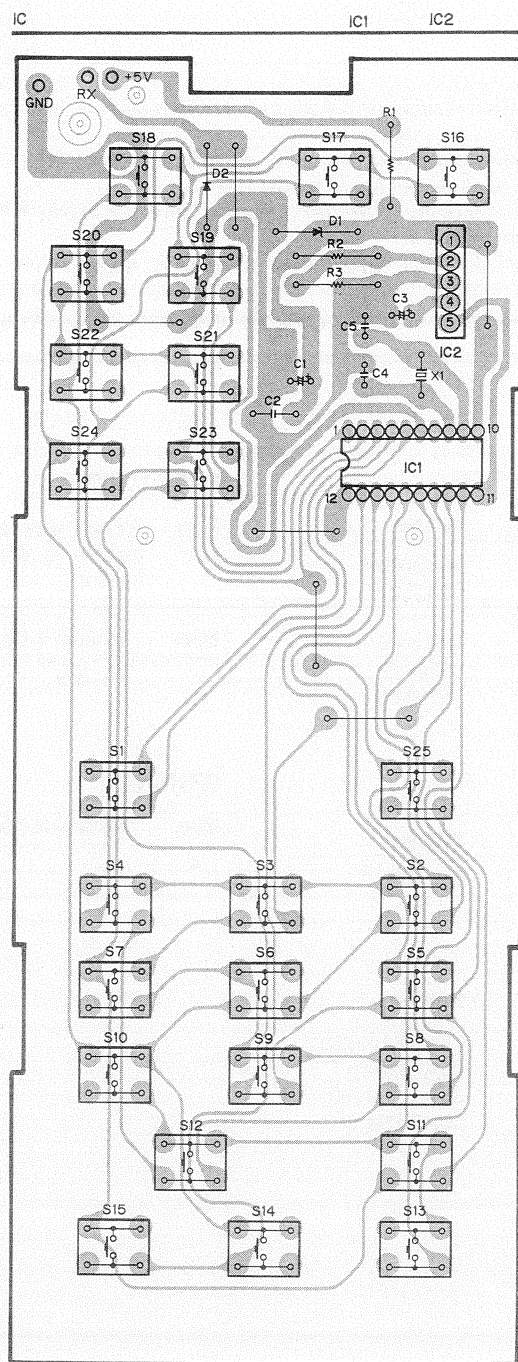
Mark	Symbol & Description	Part No.
	R1—R3	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
★	X1 Ceramic oscillator (400 kHz)	DSS1002

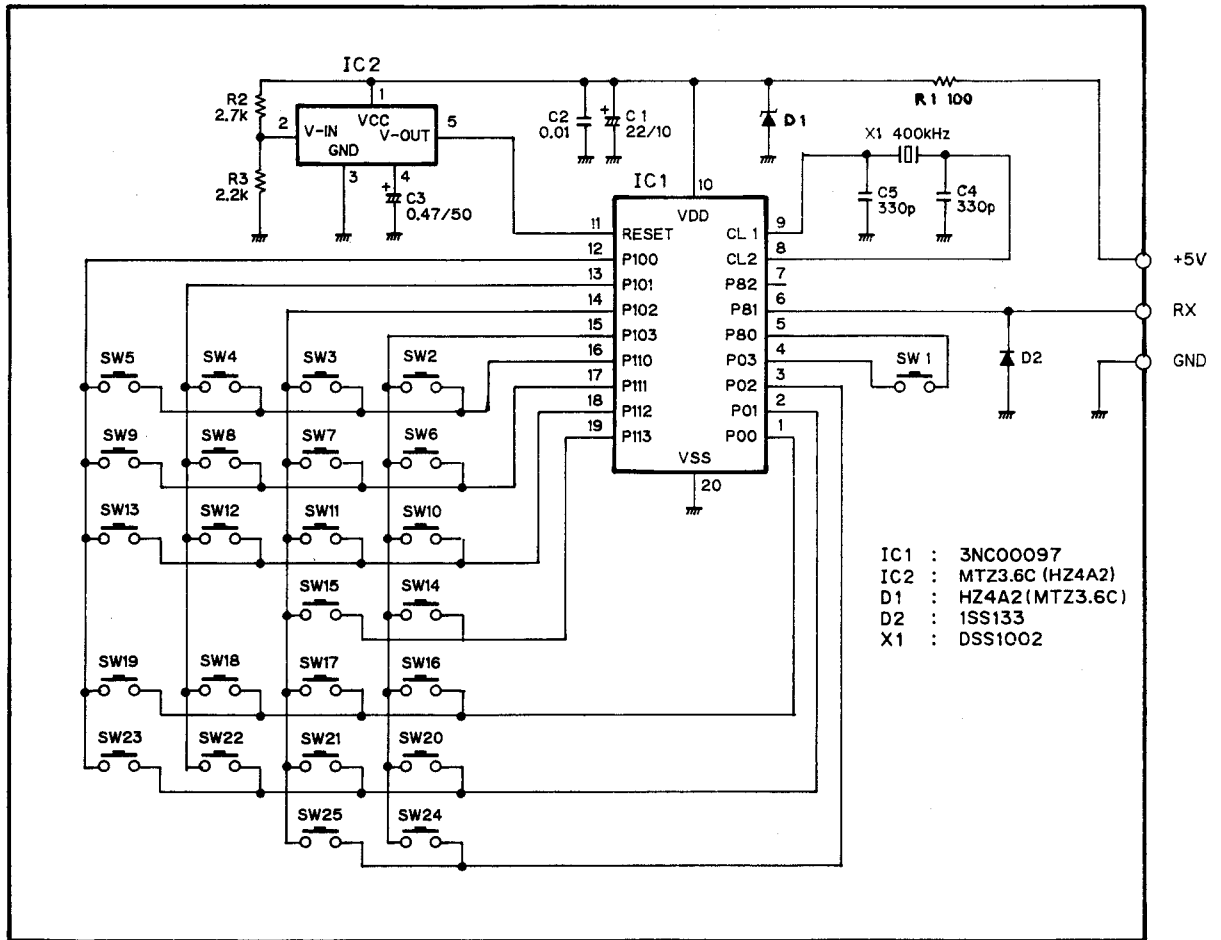
IC1 : 3NC00097 IC2 : M51958AL D1 : HZ4A2 or MTZ3.6C
D2 : 1SS133

3. P.C. BOARD PATTERN



IC1 : 3NC00097 IC2 : M51958AL D1 : HZ4A2 or MTZ3.6C
D2 : 1SS133

4. SCHEMATIC DIAGRAM



1. RESISTORS:

Indicated in Ω , $\frac{1}{2}W$, $\frac{1}{4}W$, $\pm 5\%$ tolerance unless otherwise noted; k; k Ω , M; M Ω , (F); $\pm 1\%$, (G); $\pm 2\%$, (K); $\pm 10\%$, (M); $\pm 20\%$ tolerance

2. CAPACITORS:

Indicated in capacity (μF)/voltage (V) unless otherwise noted; p; pF. Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE CURRENT:

$\square$: DC voltage (V) at no input signal
 Value in () is DC voltage at rated power.
 $\rightarrow$ mA; DC current at no input signal

4. OTHERS:

$\rightarrow$: Signal route.
 $\odot$: Adjusting point.

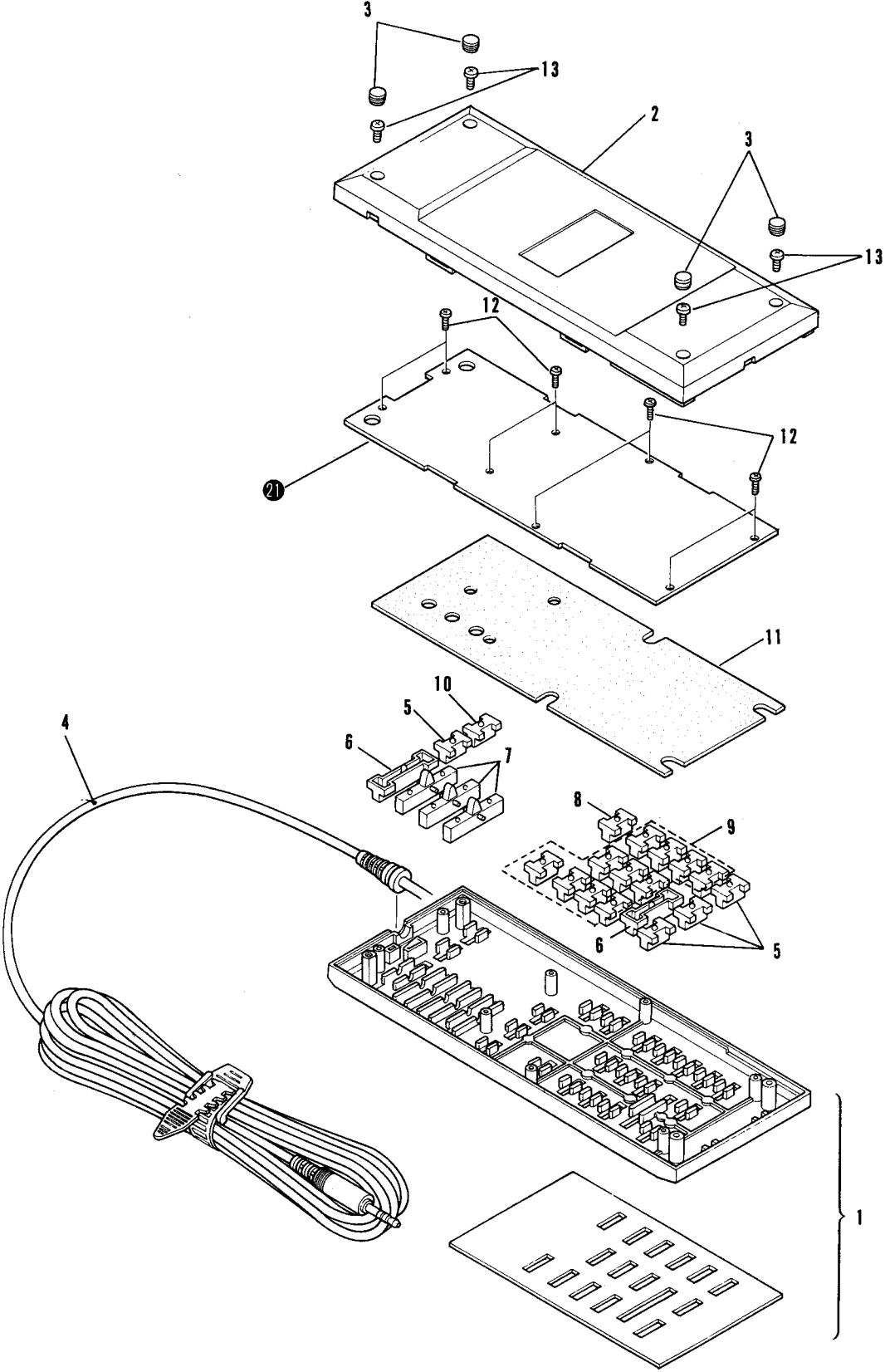
The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 $\ast$: marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCHES

SW1 : FUNC
 SW2 : 7 (AUDIO)
 SW3 : 8 (SPEED)
 SW4 : 9 (OPEN)
 SW5 : 4 (VIDEO)
 SW6 : 5 (STOP-M)
 SW7 : 6 (START)
 SW8 : 1 (DISPLAY)
 SW9 : 2 (STILL)
 SW10 : 3 (C-MODE)
 SW11 : 0 (RD)
 SW12 : SEARCH (C/R)
 SW13 : FRAME (RA)
 SW14 : TIME (RB)
 SW15 : CHAPTER (RC)
 SW16 : REJECT
 SW17 : PAUSE
 SW18 : PLAY
 SW19 : STILL/STEP REV
 SW20 : STILL/STEP FWD
 SW21 : MULTI SPEED REV
 SW22 : MULTI SPEED FWD
 SW23 : SCAN REV
 SW24 : SCAN FWD
 SW25 : CLEAR

5. EXPLODED VIEWS AND PARTS LIST



A

A

B

B

C

C

D

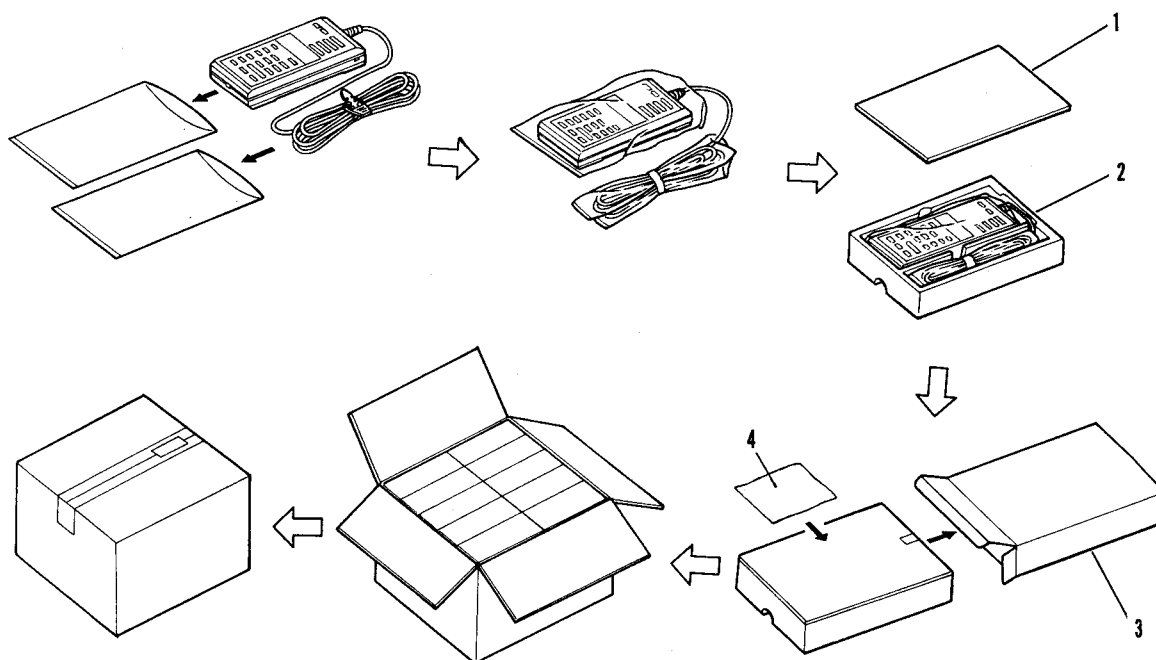
D

NOTES:

- Parts without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your Parts Stock Control, the fast moving items are indicated with the marks $\star\star$ and $\star$.
 $\star\star$ **GENERALLY MOVES FASTER THAN $\star$**
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts marked by " $\odot$ " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1.	DXA1002	Case assembly (Top)		8.	DMA1006	Knob (D) (CLEAR)
	2.	VNK-693	Case (Bottom)		9.	VNL-560	Knob (E) (0 ~ 9, FUNC.)
	3.	VEB-074	Rubber foot		10.	VNL-198	Knob F (REJECT)
	4.	VDE-034	Connection cord		11.	VEC-231	Spacer
	5.	VNL-556	Knob (A) (PAUSE, FRAME, TIME, CHAPTER)		12.	PBZ20P050FMC	Screw
	6.	VNL-557	Knob (B) (PLAY, SEARCH)		13.	PBZ26P060FZK	Screw
	7.	VNL-558	Knob (C) (STILL/STEP, MULTI- SPEED, SCAN)		21.		RMTC assembly

6. PACKING**Parts List**

Mark	No.	Part No.	Description
	1.	VHA-088	Pad (A)
	2.	VHA-089	Pad (B)
	3.	DHF1003	Packing case
	4.	DRY1001	Operating instructions